**Scraping Movies Box Office Data from https://www.boxofficemojo.com/**

**(Coded by M.Essa)**

**Libraries:**

* **requests:** The Library is used for web scraping, requests is used to fetch the HTML source code of a webpage that you want to extract data from.
* **BeautifulSoup:** The Library used for making it easy to search for and extract specific pieces of data. It allows you to find elements based on their tag names, IDs, classes, or other attributes.
* **pandas:** The Library is used to Organize the extracted data into a structured format (like tables), making it easy to analyze and save the data in files like CSV.
* **datetime:** The Library is used to manipulate dates and times. It provides various classes to work with date, time, and date-time combinations, offering functions to create, format, modify, and calculate differences between dates and times.

**Note:** The task can be developed without using pandas and datetime, but these libraries can make life much easier.

**Step 1: Importing Libraries**

import requests

from bs4 import BeautifulSoup

import pandas as pd

import datetime

**Step 2: Getting HTML of the website using request**

URL = f"https://www.boxofficemojo.com/year/world/{year}/"

page = requests.get(URL)

**Step 3: Getting the desired data from HTML using BeautifulSoup**

results = soup.find(id="table")

if not results:

    print("No table found on the page.")

    exit()

world = results.find\_all("td", class\_="a-text-right mojo-field-type-money")

per = results.find\_all("td", class\_="a-text-right mojo-field-type-percent")

name = results.find\_all("a", class\_="a-link-normal")

**Step 4: Organizing Data using pandas**

data = {

    "Rank": Rank,

    "Movie Name": Movie\_name,

    "Worldwide": Worldwide,

    "Domestic": Domestic,

    "Domestic %": per\_Domestic,

    "Foreign": Foreign,

    "Foreign %": per\_Foreign

}

**Step 5: Saving the Data into CSV using pandas**

df = pd.DataFrame(data)

df.to\_csv(f'Movies\_Box\_Office\_{year}.csv',index=False)

print(f"Data for {year} saved to Movies\_Box\_Office\_{year}.csv")